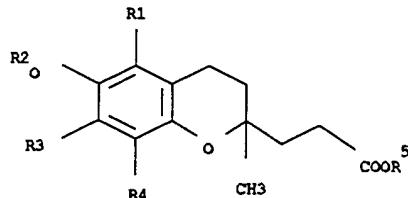


4. The use as claimed in claim 1 for prophylaxis against aging processes of the human skin.

6. The use as claimed in claim 1 for prophylaxis against aging processes of human hair.

7. The use as claimed in claim 1, wherein at least one of the compounds of the formula I is present in an effective content in cosmetic preparations.

9. A cosmetic preparation for protecting the human epidermis or human hair, which comprises, in a cosmetically suitable carrier, a cosmetically effective amount of at least one of the compounds of the formula I

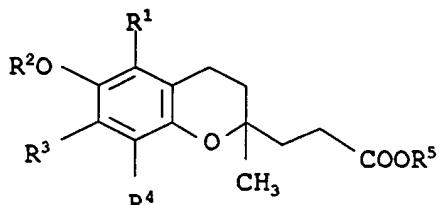


I

in which the substituents R<sup>1</sup> to R<sup>5</sup> have the meanings defined according to claim1.

**CLAIMS AS FILED - OZ 52049**

1. The use of chroman derivatives of the formula I,



I

in which the substituents, independently of one another, have the following meanings:

R<sup>1</sup> is hydrogen, C<sub>1</sub>-C<sub>12</sub>-alkyl,

R<sup>2</sup> is hydrogen, C<sub>1</sub>-C<sub>12</sub>-acyl,

R<sup>3</sup> and R<sup>4</sup>

are hydrogen, C<sub>1</sub>-C<sub>12</sub>-alkyl,

R<sup>5</sup> is hydrogen, C<sub>1</sub>-C<sub>12</sub>-alkyl, aryl

in cosmetic or dermatological preparations.

2. The use of chroman derivatives as claimed in claim 1, in which

R<sup>1</sup> is hydrogen, C<sub>1</sub>-C<sub>3</sub>-alkyl,

R<sup>2</sup> is hydrogen, C<sub>1</sub>-C<sub>3</sub>-acyl,

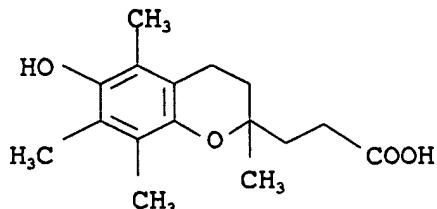
R<sup>3</sup> and R<sup>4</sup>

are C<sub>1</sub>-C<sub>3</sub>-alkyl and

R<sup>5</sup> is hydrogen, C<sub>1</sub>-C<sub>3</sub>-alkyl.

**CLAIMS AS FILED - OZ 52049**

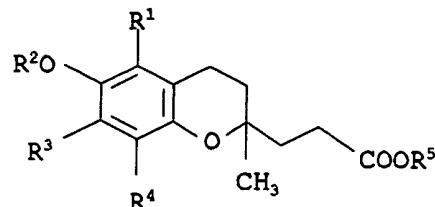
3. The use of a chroman derivative as claimed in claim 1 having the formula Ia



Ia.

4. The use as claimed in claim 1 for prophylaxis against aging processes of the human skin.
5. The use as claimed in claim 4 for prophylaxis against dry skin, wrinkle formation and/or pigment disorders.
6. The use as claimed in claim 1 for prophylaxis against aging processes of human hair.
7. The use as claimed in claim 1, wherein at least one of the compounds of the formula I is present in an effective content in cosmetic preparations.
8. The use as claimed in claim 7, wherein at least one of the compounds of the formula I is present in concentrations of from 0.01 to 30% by weight, based on the total amount of the cosmetic preparation.
9. A cosmetic preparation for protecting the human epidermis or human hair, which comprises, in a cosmetically suitable carrier, a cosmetically effective amount of at least one of the compounds of the formula I

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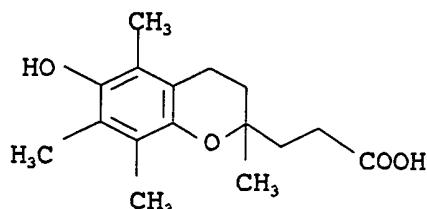


I

in which the substituents R<sup>1</sup> to R<sup>5</sup> have the meanings defined according to claim

1.

10. A cosmetic preparation as claimed in claim 9, comprising a cosmetically effective amount of the compound of the formula Ia



Ia.